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APPLICATION NO.	. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/755,365	01/05/2001		Adriaan Johannes Rijnberg	PHNL000014	3887
24737	7590	10/31/2006		EXAM	INER
PHILIPS IN	NTELLE	CTUAL PROPERT	CORRIELUS, JEAN B		
P.O. BOX 30	001				
BRIARCLIF	F MANO	R, NY 10510	ART UNIT	PAPER NUMBER	
		•		2611	

DATE MAILED: 10/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		51					
	Application No.	Applicant(s)					
	09/755,365	RIJNBERG ET AL.					
Office Action Summary	Examiner	Art Unit					
	Jean B. Corrielus	2611					
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wi	th the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re- tiod will apply and will expire SIX (6) MON tute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. EANDONED (35 U.S.C. § 133).					
Status ·							
1) Responsive to communication(s) filed on 19	September 2006.						
2a) This action is FINAL . 2b) ⊠ T							
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-7,9 and 13-18</u> is/are pending in t	he application.						
4a) Of the above claim(s) is/are withd	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) <u>1-4,6,7,13-16 and 18</u> is/are rejecte							
7) Claim(s) <u>5,9 and 17</u> is/are objected to.	.,						
8) Claim(s) are subject to restriction and	d/or election requirement.						
Application Papers		•					
9)☐ The specification is objected to by the Exam	iner.						
10)☐ The drawing(s) filed on is/are: a)☐ a	accepted or b) objected to I	by the Examiner.					
Applicant may not request that any objection to t		• •					
Replacement drawing sheet(s) including the corr							
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action of form P10-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of:	ign priority under 35 U.S.C. §	119(a)-(d) or (f).					
 Certified copies of the priority docume 	ents have been received.						
2. Certified copies of the priority docume							
3. Copies of the certified copies of the p	·	received in this National Stage					
application from the International Bure	, , , , , , , , , , , , , , , , , , , ,	an anti-said					
* See the attached detailed Office action for a l	ist of the certified copies not	received.					
Attachment(s)							
1) Notice of References Cited (PTO-892)		Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		s)/Mail Date nformal Patent Application					
Paper No(s)/Mail Date	6) Other:						

DETAILED ACTION

1. In view of the appeal brief filed on 9/19/06, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

Claim Rejections - 35 USC § 103

2. Claims 1, 7 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant admitted prior art page 1, lines 1-24 in view of Japanese Patent No. JP-10083200A (Japanese Patent).

As per claims 1 and 7, Applicant admitted prior art page 1, lines 1-24 teaches a method and apparatus for transmitting a digital information signal via a transmission medium, including: input means for receiving the digital information signal, adaptive prediction filter means adapted to derive a prediction signal from the digital information

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signal in dependence on an array of prediction filter coefficients; first signal combination means for combining the digital information signal and said prediction signal so as to obtain a residual signal; encoding means for encoding said residual signal so as to obtain an encoded signal, coefficient generator means for generating an array of filter coefficients A[i] in response to the digital information signal, i being an integer for which it holds that 0 # i < p, where p is a variable; output means for supplying the encoded signal to an output terminal for transmission via the transmission medium. See applicants admitted prior art page lines 1-24.

However, Applicants admitted prior art page lines 1-24 does not teach or fairly suggest the further limitations of a smoothing means for smoothing the array of filter coefficient A [i] so as to obtain the array of prediction filter coefficients for supply to the adaptive prediction filter means. In the same field of endeavor, Japanese Patent No. JP-10083200A (Japanese Patent thereafter) teaches fig. 1, a smoothing means 35 for smoothing the array of filter coefficient, so as to obtain an array (series) of prediction filter coefficients for supply to LPC filter 3 (adaptive prediction filter means). Given that fact, it would have been obvious to one skill in the art to incorporate such a teaching in applicant's admitted prior art in order to perform spectral smoothing on the LPC coefficients so as to enhanced signal reproduction see abstract.

As per claim 13, see claim 1. In addition, the admitted prior art page 4, lines 26-28 teaches the encoded signal is transmitted on a transmission medium. Art Unit: 2611

3. Claims 2-4, 6 and 14-16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant admitted prior art page 1, lines 1-24 in view of Japanese Patent No. JP-10083200A (Japanese Patent) further in view of Shimoni et al US Patent No. 4,777,620.

As per claim 2, as applied to claims 1 and 7 above, applicant admitted prior art page 1, lines 1-24 and Japanese Patent No. JP-10083200A (Japanese Patent) disclose the invention substantially as claimed but do not explicitly teach that the smoothing means (includes) is a low pass filter. However, it is well known in the art to implement a smoothing means as a LPF. For instance, Shimoni et al teaches the implementation of a smoothing means as a low pass filter. See col. 1, line 66-col. 2, line 2. Given that fact, it would have been obvious to one skill in the art to incorporate such a teaching in Applicant admitted prior art and Japanese Patent No. JP-0083200A (Japanese Patent) in order to ensure that high frequency content of the data is reduce thus improving the predictability of the predictor see col. See col. 1, line 66-col. 2, line 2.

As per claims 3 and 4, it is well established in the art to implement a lowpass filter as IIR and FIR (see for instance Japanese patent JP 357079725A, abstract). Given that fact, it would have been obvious to one skill in the art to implement the lowpass filter as IIR and FIR so as to satisfy system design requirements.

As per claim 6, it is well known in the art to store buffer the signal in a storage device (record carrier) prior to transmission. Given that, it would have been obvious to one skill in the art to store buffer the signal in a storage device (record carrier) prior to transmission so as to avoid data lost in the event of transmission failure.

As per claim 14 see claim 2.

As per claims 15 and 16, see claims 3 and 4.

As per claim 18, the smoothed coefficients generated are prediction filter coefficients see abstract.

Allowable Subject Matter

4. Claims 5, 9 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

5. Applicant's arguments filed 9/19/06 have been fully considered but they are not persuasive. It is alleged that there is no disclosure in Shimoni of generating an array of filter coefficients in response to the information signal or any smoothing of filter coefficients. Such comment is moot since such limitations are taught by the primary and/or secondary reference. It is further alleged that there is no disclosure in Shimoni to implement the lowpass filter as IIR filter or FIR filter. However, as evidence by Japanese patent No. JP357079725A, it is well known in the art for a low pass filter to be implemented as a IIR and FIR given that fact one skill in the art would have been motivated to configure the low pass filter as such for the reason set forth above.

Conclusion.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is 571-272-

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3020. The examiner can normally be reached Monday-Thursday from 10:00AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jean B Corrielus
Primary Examiner
Art Unit 2611

10:30-06

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by

signing below:

JAY K. PATEL SUPERVISORY PATENT EXAMINER